

ABSTRACT

An image sensing apparatus for converting an object image into a video signal, including an diffraction grating optical low-pass filter having a diffraction grating surface (1h) for suppressing a fake signal caused by an interference of the pixel pitch of CCD (1i) and spatial frequency of the object image under high luminance condition. A control device (1n) incorporated in the image sensing apparatus controls the speed of electrical shutter of the CCD (1i) or it controls the insertion of an ND (Neutral Density) filter in an object image light path (3) to maintain the aperture of an iris device (1k) within the predetermined level to keep the aperture of an iris (1k) within a predetermined level in order to suppress the interference of the pixel pitch of CCD and the spatial frequency of the object image so that the fake signal can be suppressed.